



**NOVEMBER 3 & 4, 1999**  
**EMBASSY SUITES HOTEL MARKHAM, ONTARIO**  
***GENERAL THEME: "THE ROAD TO THE FUTURE"***

**AGENDA**

**TUESDAY EVENING - November 2, 1999**

PRE-REGISTRATION, CASH BAR, and networking during RECEPTION from 17:00 to 19:00 hours

**DAY 1 - WEDNESDAY - November 3, 1999**

**7:00 REGISTRATION**

**8:30 CONFERENCE OPENING CEREMONIES:**

|  |   |
|--|---|
| Welcome on behalf of hosts & sponsors: | Robert Fraser (ECS/MDEC)  |
| Official opening of Conference:        | Dr. Jean-Claude St-Pierre<br>(Dir-Gen, Minerals Technology Branch, NRCAN) |
| Conference arrangements:               | Melody Edwards (ECS)  |
| Announcements:                         | Don Dainty (CANMET/MDEC)  |
| MDEC Background and Perspectives:      | Robert Fraser (ECS/MDEC)  |

**9:00 DEEP REVIEW SESSION:           CHAIRPERSON - Dr. Bruce Conard (INCO/DEEP)**

|  |                                      |
|--|--------------------------------------|
| Review of DEEP organization and history:             | Dr. Bruce Conard (INCO/DEEP)         |
| Summary: past, present & future projects:            | Gary Allen (HBMS/DEEP)               |
| Presentation of 'DEEP Maintenance Project' outcomes: | Sean McGinn (Noranda/DEEP)           |
| 'Light Duty Vehicle' - Phase I report:               | Michel Grenier (CANMET/DEEP)         |
| Status of Noranda/Brunswick DEEP filter project      | Sean McGinn (Noranda/Brunswick/DEEP) |

**Questions/discussion from membership**

**10:25 COFFEE BREAK**

**10:45 PANEL I - OVERVIEW OF CURRENT MINING PRACTICE REGARDING AMBIENT DPM LEVEL INIMIZATION  
CHAIRPERSON - Michel Grenier (CANMET)**

Reports from 4 operating mines on current practice related to DPM control

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|--|-----------------------------|
| 1) Agrium Potash, Saskatchewan (tentative):              | Jim Postnikoff (Agrium)     |
| 2) Swedish efforts to reduce DPM exposures:              | Ms. Bodil Mellblom (GRAMKO) |
| 3) HBMS ventilation DPM control strategies:              | Gary Allen (HBMS)           |
| 4) 'Boston Big Deep Project' emissions reduction results | Dale McKinnon (for NESCAUM) |

**Discussion with membership**

**12:00 LUNCH - introduction of all sponsors**

**13:10 PANEL II - OVERVIEW OF CURRENT DPM LEVEL REGULATION  
CHAIRPERSON - Jennifer Penney (USWA/MDEC)**

Reports related to intended or implemented DPM regulation:

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|---|-------------------------------|
| 1) MSHA proposed and in-force regulations:              | Tom Tomb (MSHA)               |
| 2) Diesel 'on/off-highway' regulations summary:         | Addy Majewsky (Ecopoint)      |
| 3) CANMET perspectives and recommendations to industry: | Dr. Mahe Gangal (CANMET/MDEC) |

**Questions/discussion with membership**

**14:00 TECHNICAL SESSION I - TECHNOLOGY PAVING "THE ROAD TO THE FUTURE"  
CHAIRPERSON - John Vergunst (Ont Inspect)**

Three reports about actual DPM levels, exposures and sampling:

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|---|---|
| 1) NIOSH - Feasible DPM ambient estimates | George Schnakenburg (NIOSH)                   |
| 2) HEI - DPM exposure of miners           | John Sagebiel et al (DRI)                     |
| 3) DPM/RCD exposure in Canadian mines     | Damian D'Aguiar (INCO)<br>M. Grenier (CANMET) |

**Questions/comments from membership**

**15:30 COFFEE BREAK**

**15:50 TECHNICAL SESSION II - TECHNOLOGY PAVING "THE ROAD TO THE FUTURE"  
CHAIRPERSON - Dale McKinnon (MECA)**

Seven reports on add-on systems in general & new developments:

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|---|--------------------------|
| 1) the impact of new technologies                         | Dr. Mahe Gangal (CANMET) |
| 2) fuel cell technical update (Fuel Cell Propulsion Inst) | Arnold Miller (FCPI)     |

**Questions/comments from membership**

**16:50 ADJOURNMENT**

**17:00-20:00 CASH BAR, RECEPTION & NETWORKING at Displays**

# **GENERAL THEME: "THE ROAD TO THE FUTURE"**

**DAY 2 - THURSDAY, NOVEMBER 4, 1999**

## **9:00 CONFERENCE ANNOUNCEMENTS**

### **9:10 TECHNICAL SESSION II (cont'd) - TECHNOLOGY PAVING "THE ROAD TO THE FUTURE" CHAIRPERSON - Dale McKinnon (MECA)**

About add-on systems and new developments (cont'd)

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|---|---------------------------------|
| 3) add-on systems overview                              | Dale McKinnon (MECA)            |
| 4) integration of catalysts/filters/engines (tentative) | Dr. M. Gautam (West Virginia U) |
| 5) add-on systems modelling                             | Ted Tadrous (ECS)               |
| 6) additive regenerative filters                        | Bernard Kahlert (Oberland)      |
| 7) applied DPM reduction                                | Norbert Paas (PaasTech)         |

**Questions/comments from membership**

## **10:40 COFFEE BREAK**

### **11:00 TECHNICAL SESSION II (cont'd) - TECHNOLOGY PAVING "THE ROAD TO THE FUTURE" CHAIRPERSON – Dr. Don Wilford (ECS/Lubrizol)**

Seven reports including MSHA engine certification & further new tech developments

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|--|-------------------------|
| 1) mine engine certification regulations             | George Sasseen (MSHA)   |
| 2) new technology re: small displacement, HD engines | Bradley Oliver (Kubota) |
| 3) low emission technologies for u/g mines           | Jaime Sauerteig (Deutz) |

## **12:00 LUNCH**

### **13:00 TECHNICAL SESSION III (cont'd) - TECHNOLOGY PAVING "THE ROAD TO THE FUTURE" CHAIRPERSON \*1 – Dr. Don Wilford (ECS/Lubrizol)**

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|---|--------------------------------|
| 4) water-blend fuel considerations              | Paul Basar (Lubrizol)          |
| 5) diesel fuel standards & quality              | Andy Pickard (Petrocan)        |
| 6) DPM reduction employing combustion improvers | Tim Rogers (Octel – tentative) |
| 7) catalytic NOx reduction                      | E. Martin & J. Aleixo (DCL)    |

**Questions/comments from membership**

## **14.40 COFFEE BREAK**

### **15:10 PANEL III - "THE ROAD TO THE FUTURE" - CONCLUSIONS & RECOMMENDATIONS - CHAIRPERSON - Heather Langfeld (Falconbridge)**

The seven technical and panel session chairpersons gather to form a panel, and, aided by their records of the session highlights and the conclusions from their coffee break consultations, one of their number will be appointed to present a consensus of the results of the consultation, all as a prelude to a free interchange with the membership present, involving the interplay of the most promising new technologies, add-on systems, engines, fuels and maintenance procedures designed to maximize the reduction of diesel emissions in general and DPM in particular. Chairpersons disagreeing from the majority consensus are encouraged to express their viewpoints.

**15:50 FINAL PLENARY CONSULTATION**  
**CHAIRPERSON - Keith Richardson (ESSO/MDEC):**

- Summary presentation of comments received regarding last year's Conference; gathering of previously distributed comment sheets regarding this '99 Conference.
- Announce new Management Committee membership
- Announce date and place of year 2000 Conference
- Where do we go from here? Points arising from the floor
- Comments from retiring Committee members:
  - Robert Fraser (ECS/MDEC)
  - Don Dainty (CANMET/MDEC)
- FINAL REMARKS from MDEC Management Committee & host(s)

**16:30 ADJOURNMENT**